

**METHODS AND COMPOSITIONS FOR ASSESSING CHROMOSOME  
COPY NUMBER**

**ABSTRACT OF THE INVENTION**

Methods and compositions for assessing chromosome copy number are provided. Specifically, the invention provides an array containing a plurality of features including at least one feature that contains oligonucleotides that are complementary to a structural region of a chromosome. The subject methods and compositions may be used to detect chromosome copy number in a cell, and, as such, may be employed in a variety of diagnostic and research applications. Kits and computer programming for use in practicing the subject methods are also provided.